



SKYLER E. ADAMS

Members of East Campus's First West hall organized their annual pumpkin drop the night of Halloween. Over 120 pumpkins were packed with flour before being released from the roof of Building 54.

Burst pipe causes another flood in New House

A steam pipe burst in the stairwell of New House's House 6 Monday, causing a flood on the first floor and part of the large, ground-floor hallway connecting New House's six houses.

At around 10:45 p.m., an email to the list nh-forum told students

to "evacuate now via House 5 staircase, not a drill."

A "provisional" all-clear was given at 11:03 p.m.

A New House community member was injured as a result of the burst. According to an email sent by New House Vice

President Alexa M. Garcia '17, the individual "suffered minor burns," but "has been medically attended to, and is fine now."

"We are aware that this repair process has been a grand

New House, Page 11

Construction at Bexley site projected to finish in a month

The park currently under construction at the site of the now-demolished Bexley Hall (Building W13) will not be completed until the end of November, one month after the original target date.

The work, originally scheduled to be finished during October, was delayed due to several factors. According to Director of Projects Arne Abramson, it took longer than expected to prepare the building for demolition and to remove demolition rubble from the site.

Additionally, while excavating the site, construction teams discovered that the drainage was

in poor condition and required redesign.

Construction teams did not operate during the Solve conference, which further delayed progress.

The plans for the park have not changed since they were revealed this past summer. Once complete, the park will feature a rain garden, walkways and benches, space for installations by various departments and groups on campus, and even some pieces of the former Bexley Hall, such as its stone entrance archway, which will become a bench.

—Emma Bingham

IN SHORT

Veteran's Day will be observed as an Institute holiday next Wednesday, Nov. 11.

Drop date is Wednesday Nov. 18. Students wishing to drop classes or change classes to Listener status after that date will face fees and a petition process. Drop date will also be the last day to petition for an Advanced Standing Exam.

UROP applications are due at 5 p.m. today for students applying

for sponsored funding, volunteer, and for-credit UROPs.

The Costco shuttle will resume service on alternate Sundays beginning Nov. 18.

Graduate students and undergraduates seeking like-minded students to work with are invited to the **graduate-UROP mixer on Nov. 9** from 7 to 8:30 p.m. in the Bush Room.

Send news information and tips to news@tech.mit.edu.

Media Lab celebrates 30th anniversary with star-studded symposium

The MIT Media Lab convened Nobel prize laureates, celebrities, and renowned academics for its 30th anniversary celebration last Friday.

Former United Nations Secretary General and Nobel Peace Prize winner Kofi Annan SM '72, White House chief technology officer Megan Smith '86, Harvard psy-

chologist and linguist Steven Pinker, Media Lab co-founder Nicholas Negroponte, Media Lab director Joi Ito, and President L. Rafael Reif all spoke at the symposium held in Kresge Auditorium.

Magicians Penn and Teller and radio host Tom Ashbrook co-hosted the event. Surprise guest Martha Stewart participated in a magic

show on stage.

Attendance was by invitation only.

Professor emeritus Marvin Minsky, who has worked to endow machines with common-sense reasoning, received a Lifetime achievement award and was presented with a 3D printed glass

Media Lab, Page 11

Woman found dead in athletic center's locker room sauna

Death is 'not considered suspicious'

By Emma Bingham and William Navarre

STAFF REPORTERS

A woman was found dead in the women's locker room sauna at DuPont Athletic Center last Friday afternoon. She was not an MIT student.

The death is "not considered suspicious," according to the Middlesex County District Attorney's office. Since foul play is not suspected, the office said it does not plan to release additional information to the public.

Police responded to a report of an "unresponsive female" at around 4:40 p.m. on Oct. 30, according to MIT police logs. The Cambridge Fire Department also responded and pronounced the woman deceased.

"DAPER staff as well as several student athletes were involved in the initial discovery and response," Director of Recreational Sports Tim Mertz wrote in an email sent to an athletics staff mailing list. "MIT police are working to contact next of kin."

Mertz thanked Senior Associate Dean of Student Life Judith McGuire Robinson in the email for making herself present and available "to speak with several Varsity Teams" after what he called a "traumatic and emotional event."

Mertz encouraged those affected to reach out to the "tremendous Support Services provided on campus."

The MIT News Office told *The Tech* that MIT has no procedure in place that requires staff to check on the locker room saunas on a periodic basis.

The communications director at Health Fitness Corporation, the Minneapolis-based contractor that staffs MIT's athletic facilities, was travelling and could not be reached by press time for information about the company's internal procedures.

The locker room closed following the incident: an email to campus at about 5:40 p.m. last Friday announced the closure. A follow-up email Saturday morning announced that the locker room had been reopened.

MIT.nano, new Bldg. 12, projected to complete on schedule in 2018

Building to double amount of clean room space on campus and house vibration-sensitive, state-of-the-art equipment

By Vivian Zhong

By the time the class of 2022 arrives on campus, MIT.nano will be open to both the MIT community and the public at large, according to the latest construction updates.

MIT.nano is the brainchild of, among others, engineering Professor Vladimir Bulovic, the faculty lead on the project.

Since July, construction has progressed from the final states of the planning phase to foundation work.

As of last week, the slurry wall had just been completed, and workers were preparing to install the cap beam and build a concrete diaphragm wall.

The engineering that has gone into the construction of MIT.nano is extensive, Bulovic says, in order to support the research that will take place there. In addition to doubling the current cleanroom capacity on campus, MIT.nano will feature an extremely low-vibration basement level that will host the most delicate

of nanoscale imaging equipment.

Travis Wanat, the senior project manager, led a team that measured the electromagnetic fields and vibration levels at five different locations on campus to find the optimal site, which happened to be the site of the original Building 12.

A team designed plinths, large heavy platforms that can actively monitor the vibrations, located far below ground that will act as shock

MIT.nano, Page 2

WHY IS IT SO WARM?

The record high in Boston for Nov. 6 is 73 °F. Is that about to change?

WEATHER, p. 14

STOP IGNORING ECONOMISTS

Trust the experts. **OPINION, p. 4**

DISINVITE THIS 9/11 SUPPORTER

MIT should cancel an event hosted by Palestine@MIT and the Arab Students Association. **OPINION, p. 4**



AN EVENING OF STRINGS

Tchaikovsky, Elgar, and Schubert at the BSO.

ARTS, p. 9

FIRE BURN AND CALDRON BUBBLE

The Shakespeare Ensemble puts a fresh spin on Macbeth.

ARTS, p. 8

SECTIONS

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During construction, teams discovered mercury in the foundations of the old building

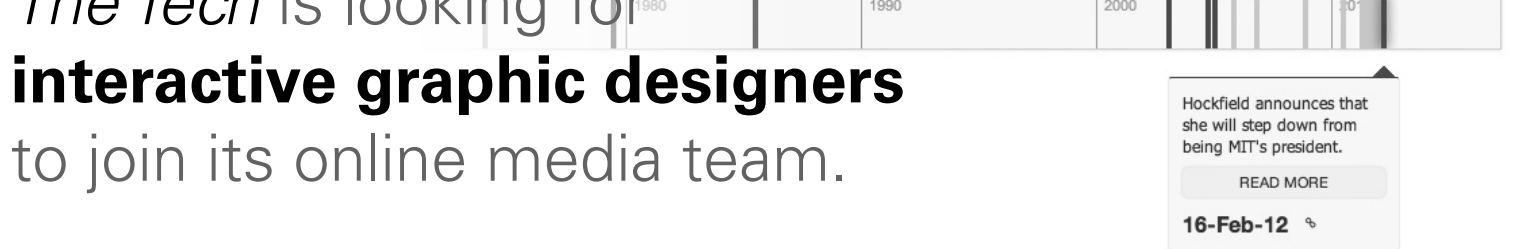
will be shared by existing faculty

MIT.nano is designed to put MIT ahead of its peers in the field

Wanat elaborated on some of

MIT.nano has been in the works

To ensure that the new building is properly incorporated into the rest of campus, hacking will be allowed in the new building — as long as, Bulovic cautions, it's done safely.



The screenshot shows a web browser window. At the top, there's a navigation bar with links for 'Personal Life' and 'Initiatives'. Below this is a search bar with a magnifying glass icon and a 'SEARCH' button. To the right of the search bar are two buttons: '« PREVIOUS' and 'NEXT »'. The main content area displays a large headline: 'The Tech is looking for **interactive graphic designers** to join its online media team.' Below the headline is a timeline graphic with markers for 1980, 1990, 2000, and 2010. A small pop-up box is visible over the timeline, containing the text: 'Hockfield announces that she will step down from being MIT's president.' Below this text is a 'READ MORE' button and a date '16-Feb-12' with a small icon.

The Tech is looking for **interactive graphic designers** to join its online media team.

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This is a great way to gain **valuable job experience**, build a strong **web portfolio**, and create designs that will be submitted for **national awards**.

For more information, email join@tech.mit.edu

MIT APPLICATION ESSAYS THAT WORKED

‘I’m like a moth to the flame when it comes to the hustle and bustle of Silicon Valley’

This is part of a series of MIT application essays submitted by students who were later admitted to the Institute. The following prompts are from the 2014-15 admissions season.

Prompt

We know you lead a busy life, full of activities, many of which are required of you. Tell us about something you do for the pleasure of it. (100 words or fewer)

Response

My blog, Northern, is truly a labor of love. At first, Northern consisted of incredibly random posts and photographs, but it has evolved into a creative outlet where I’m able to express myself through the elegant lines of crisp photos. To me, Northern represents a place with no restrictions or limits, where I can post freely without any outside influences and just be myself. I love how as I change, Northern changes with me. When I scroll through my blog, I feel a sense of calm only comparable to a cool ocean breeze. Northern reflects a pure and unadulterated “me.”

Prompt

Although you may not yet know what you want to major in, which department or program at MIT appeals to you and why? (100 words or fewer)

Response

Ever since participating in the Girls

Who Code program this summer, I have been in love with Computer Science. I love how one simple problem can be solved in so many different ways, allowing creativity and individuality to develop and thrive. I love the feeling of satisfaction when my program finally works, even if it only does the smallest task. I love how rewarding it feels to create something from nothing. But most of all I love the atmosphere of creativity and collaboration that CS fosters, making me feel like I’m a part of something bigger.

Prompt

What attribute of your personality are you most proud of, and how has it impacted your life so far? This could be your creativity, effective leadership, sense of humor, integrity, or anything else you’d like to tell us about. (200–250 words)

Response

Leadership is the gift that keeps on giving, continuously pushing me to grow and improve. Of my leadership positions, none were about gaining power or prestige. For each — “Technovation,” the Women’s Group, the school newspaper, “Girls Who Code” and Sources of Strength — I thought about how incredible it would be if sharing my enthusiasm for something could affect positive change. My passion, focus, and intensity come alive when I’m doing something I love. Therefore each time I was offered the opportunity to take

the lead for an organization I was passionate about, it was a no-brainer.

I am proud of how leadership allows me to make differences in my community, from giving students a voice in our school’s newspaper, to organizing a panel of “Women in STEM” for the Women’s Group. In addition, I love the way leadership allows me to help others. It’s so rewarding to expose elementary school girls to the wonders of computer science, or even to just lighten a classmates’ workload when they are having a tough week.

But most importantly, leadership has forced me to grow as a person. I now know that being a leader is more than sending out emails and running meetings. Leadership is about understanding each individual and his or her way of thinking, because, in the end, it’s the personal connections that allow a group to thrive. I’ve grown so much already, but I don’t doubt that leadership will continue to teach me more than I can even imagine.

Prompt

Describe the world you come from; for example, your family, clubs, school, community, city, or town. How has that world shaped your dreams and aspirations? (200–250 words)

Response

For my entire life, I’ve lived on a peculiar border between the high-tech, fast-paced world of Silicon Valley and the rural,

quiet rhythm of my hometown, Woodside. Growing up within these completely opposite environments has resulted in my deep appreciation for both cultures.

Perhaps inevitably, living within a twenty mile radius of the Google, Facebook, and Apple campuses taught me to love technology and to admire the staggering influence that it has in our constantly evolving world. I’m like a moth to the flame when it comes to the hustle and bustle of Silicon Valley, and I dream about the day I’ll be able to become a part of it.

On the other hand, my upbringing in Woodside taught me to value close and personal relationships. For example, at our local grocery store, I know all the employees by name. On top of that, my preschool teacher still comes over for dinner once a month. This close-knit community that I grew up in instilled in me a love of interacting with people that will stay with me for a lifetime.

Oddly enough, these contrasting cultures are what inspired my dreams to become a computer scientist. Computer science combines three of my favorite things: people, collaboration and technology, while simultaneously allowing me to thrive in an atmosphere of creativity and endless possibilities. In the end, it’s incredible that this strange juxtaposition of cultures that I grew up in was able to flawlessly combine into something unexpected, yet beautiful.

—Gillian Belton ’19



WHAT KEEPS YOU UP
AT NIGHT?

If you’ve helped a friend overcome depression or struggled with depression yourself, *The Tech* would like to hear your story.

cl@tech.mit.edu

How ignoring economists hurts the public

Politicians are catering to misguided constituents

Economists, from Page 4

informed general public opposes the deal, it is not gaining widespread political support.

One might argue that if the case for free trade were so compelling, then it could be explained to the public. Although education schemes are certainly laudable, they would not address the underlying issue: engagement between economists and the public is fundamentally flawed.

As with any professional field, a significant amount of education and time is required to form well-grounded opinions on economic issues. However, unlike in many other such fields, the public is often disinclined to accept the opinions of professional economists. For example, many people recognize the harm that may come from a baseless belief in the medical sciences, such as the measles epidemic that has broken out from the scientifically unfounded conviction that vaccines cause autism. In contrast, many will accept the opinion of a member of the general public

who argues against free trade, and they will not recognize the harm that could come from accepting such a belief: the loss of hundreds of billions of dollars in economic value.

Despite the fact that it could lead to massive economic gains for all nations involved, the Trans-Pacific Partnership might not pass through Congress.

A change in the nature of the public's relationship with economics needs to occur. Society must treat economics more like other professional fields and recognize that expert consensus opinions deserve much more weight in policymaking. This is not to say that members of the public should be

excluded from engagement with economic issues. After all, economic policy affects the general public in profound ways, just as a medical procedure can profoundly affect the life of a patient. Both deserve a say. However, the general public should be using its values not to create new economic "theory," just as it is not productive for people without medical training to propose new medical procedures. Rather, members of the public can most effectively use their values to choose among the often-difficult choices that economic realities present. This same maxim applies to politicians as well. Rather than espousing claims that align with popular beliefs, such as the common claim among some conservatives like Rand Paul that a gold standard will increase monetary stability, politicians should focus on serious solutions to real economic problems. For example, economists may conclude that there is a trade-off between income equality and growth. After accepting this fact, members of the public and the politicians that repre-

sent them could use their value systems to determine what they believe is the most appropriate trade-off.

Bringing about this change in the relationship between economists and the general public will require substantial effort in both the political and public sphere. The general public has only limited trust in economists. The aforementioned Duke paper showed that less than 1 percent of the general public trust economists "a great deal" and a mere 59 percent express any confidence in them at all. This compares to a Pew study showing that 17 percent of the public trusts the medical establishment "a great deal" and that 97 percent of the public has at least some confidence in it. Economics affects individuals personally and often dramatically, yet it too is a professional discipline. Treating it as such, and thoughtfully applying our personal values to options laid out by experts, is the only way to reach policy that accounts for all who have a stake.

Daniel Perry is a member of the Class of 2019.

OPINIONOPINIONOPINION



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William Siebert, EECS professor emeritus, dies at 89

Siebert, an expert in long-range radar, helped shape EECS undergraduate curriculum

By Department of Electrical Engineering and Computer Science

Professor Emeritus William M. Siebert passed away Sunday, Oct. 25, at Emerson Hospital in Concord, Massachusetts, at the age of 89. Siebert, the Ford Professor of Engineering emeritus, was widely known for his contributions to long-range radar, and for his dedication to undergraduate teaching.

As the leader of the Radar Techniques Group at MIT Lincoln Laboratory in the early 1950s, Siebert produced the first system capable of simultaneously measuring a tar-

get's range and velocity. This work would earn him the 1988 IEEE Aerospace and Electronic Systems Society Pioneer Award for "contributions to pulse-compression techniques for radar systems."

Born in Pittsburgh in 1925, Siebert joined the MIT faculty after completing his BS in 1946 and his ScD in 1952, both at MIT. In later years, his research used signal processing and communications system theory to understand the human ear through modeling the auditory system at the neural level. He was also interested in the pedagogical implications of using computer science for engineering

teaching.

Siebert's colleagues remember him as a popular lecturer who was devoted to his teaching. His 1985 textbook, "Circuits, Signals, and Systems," based on his decades of experience teaching introductory signals and systems courses, is now considered a standard in undergraduate teaching.

Siebert also worked to expand the depth and breadth of the EECS undergraduate curriculum. As computer science grew as a specialization within the Department of Electrical Engineering and Computer Science (EECS) throughout the 1970s and 1980s, it became

increasingly difficult to fit the all of the necessary material into the undergraduate curriculum. Siebert envisioned a fifth-year master's program that would allow students intending to work as engineers to gain all of the necessary technical expertise, without sacrificing common core requirements. His vision informed the creation of EECS's MEng program, and throughout the 1990s he served on the curriculum committee that designed the program.

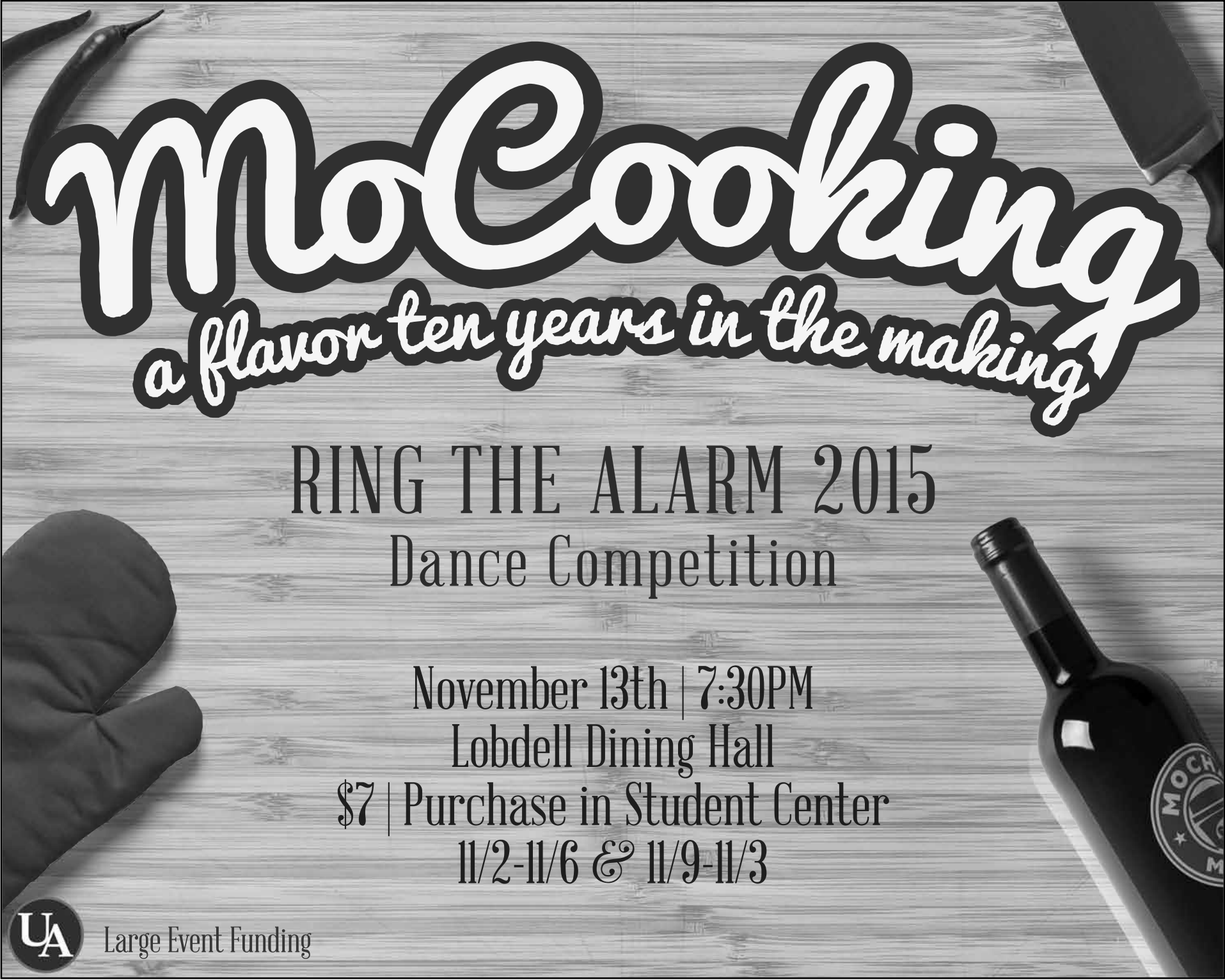
"Professor Siebert played an important role in shaping the department's undergraduate curriculum," said Anantha Chandrakasan, head

of EECS and the Joseph F. and Nancy P. Keithley Professor of Electrical Engineering. "He will be greatly missed by the many students, colleagues, and friends whose lives he impacted during his decades at MIT."

Siebert was a Fellow of the IEEE, and was the Ford Professor of Engineering from 1984-1994. He retired from MIT in 2000 after teaching as a senior lecturer for several years.

He is survived by four children and eight grandchildren. For service information and an obituary visit deefuneralhome.com.


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If you feel you are qualified for one of these prestigious awards, please discuss this with your academic advisor or your department head.

Nominations must be from YOUR DEPARTMENT and are due at the School of Science or School of Engineering Dean's Office (as appropriate to your major) by

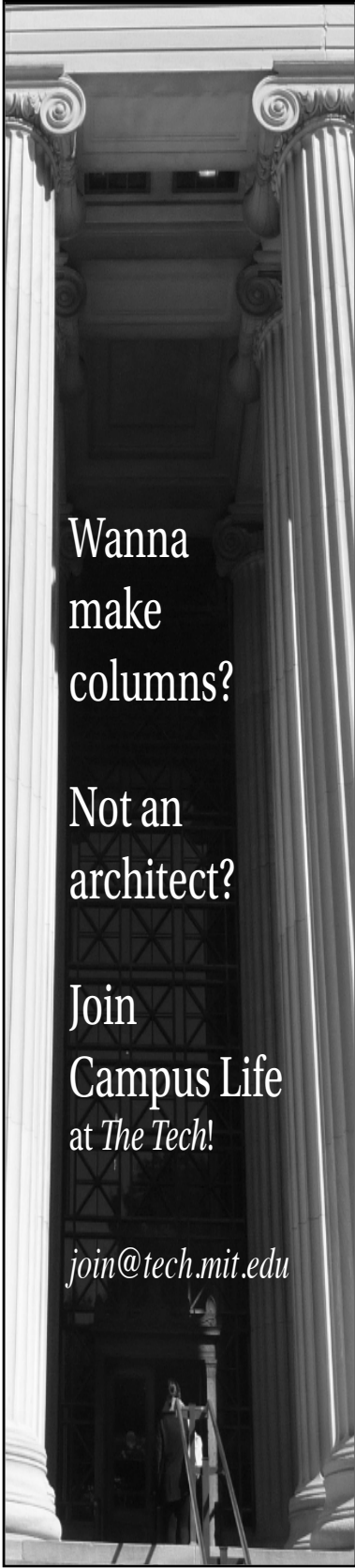
November 18, 2015

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Solution to Blow
from page 13

CHAP	TONGA	HAZE
AIDA	IVORY	EVAN
WHERE	CANONE	FIND
SONIA	LOU	ANDES
EMUS	NATE	
MUTTON	ADMIRAL	
ASIANS	REIN	DEI
DUAL	AIR	BAGS
ERR	BITS	AMELIA
PALETTE	NINETY	
IGOR	BAND	
SPOKE	ATA	CABAL
POLITICAL	ALDEBATE	
ELAN	OTTER	LION
WONG	USERS	ELMS



Wanna
make
columns?

Not an
architect?

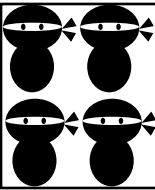
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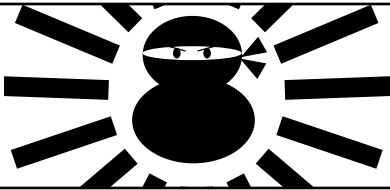
54 SHADES
OF



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THEATER REVIEW

Double, double toil and trouble

MIT Shakespeare Ensemble presents Macbeth from a new perspective

By Christopher Wang

Along the spectrum of villains and traitors, Macbeth falls somewhere between Brutus and Joffrey Baratheon. Spurred on by his wife's ambitions, he murders his king, his best friend, and a whole family in order to gain and keep the throne. With all the aspirations of a would-be ruler, but none of the guts, Macbeth is truly an unsympathetic character. But what if someone other than Lady Macbeth were pulling his strings? What if the events of Shakespeare's classic play were actually orchestrated by a cabal of witches?

This past week, I had the privilege of attending the MIT Shakespeare Ensemble's dress rehearsal for *Macbeth*. Nothing could be more seasonally appropriate than their beautifully eerie reinterpretation of the classic play, which focuses on the role of the witches who promise Macbeth the crown.

Director Edward Eaton, a teacher at Massachusetts Bay Community College, describes this version of *Macbeth* as a "witches' performance for the main characters, who don't know their own role in the play." Eaton explained his inspiration behind this version: "I've watched enough CSI to know that the investigators always look for the last man standing. Whoever is left alive at the end of the story is usually the responsible party".

Throughout the play, the witches act as an active chorus, crawling on the ground and commenting on the action. Meanwhile, Macbeth and the other lead characters step over the witches as if they were not there. Occasionally, some witches will pick themselves off the ground, shedding their rags to reveal the costume of a herald or noble. Again, the main characters remain unaware of the witches' transformations. The offstage efforts of Noelle Colant '17 (make-up design) and Jacob Gunter '16 (set design) help draw the audience into the witches' deception. The dim, shifting lights and ground-level stage blur the lines between the performers and the spectators. The chief witch, caked in gory makeup, sits near the audience, watching the events play out and occasionally stepping on stage in the guise of a messenger.

In an ironic reversal of the gender roles from Shakespeare's time, actresses play most of the main male characters. However, personalities and relationship dynamics remain unchanged from the original version. Banquo, played by Amelia Smith '17, is still a good-hearted noble. Lady Macbeth, played by Talia Weiss '18, is still strong-willed and manipulative. As the play progresses, Weiss brings a convincing madness to the character, even delivering some lines in song. Tal Scully '19 takes Macbeth's character through a different type of development,

adjusting posture and delivery to transform a spineless husband into a jaded tyrant by the end of the play.

Shakespeare's original lines remain unaltered, but have been cut and rearranged to frame the play in a more paranormal light. During one scene, Macbeth meets Banquo's ghost. He struggles to keep his composure while the witches, posing as nobles, deliver their lines with mocking cackles. Some of Macbeth's lines, usually spoken as an aside, have also been given to the witches. This creates ambiguity as to whether the witches truly exist externally. Some of these subtle changes may be lost on those who haven't touched Shakespeare since high school. In my case, I made up for a lack of familiarity by following the script on my laptop during the dress rehearsal. For those without laptop access during the play, a quick Wikipedia refresher will enhance the experience, but is certainly not necessary to enjoy the performance.

Like any Shakespearean tragedy, the body count rockets towards the end of the story. However, the MIT Shakespeare Ensemble does a good job of making each death meaningful. Stage sword fighting gives way to hand-to-hand struggles, which feel desperate and physical. The carnage builds to an unexpected ending, which I won't spoil here. Although the ending is a little surprising, the twist doesn't come off

as cheap or unwarranted. The play's conclusion arises naturally from the Ensemble's chosen interpretation.

The MIT Shakespeare Ensemble's *Macbeth* brings a creative retelling to an old classic, while still retaining the tragic elements that made the original great. I encourage you to see it while you're still at the height of your Halloween spirit.

Macbeth will continue to run on Nov. 5, Nov. 6, and Nov. 7 at 8 p.m.

Macbeth

Performed by
MIT Shakespeare Ensemble

Directed by Edward Eaton

La Sala de Puerto Rico

Runs November 5-7 at 8 p.m.

3 out of 4 MIT students understand

THE DIFFERENCE

between rape & regretted sex

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Solution to Simpsons

from page 13

ARMS	FLAGS	BOSS
POOH	AUDIT	ASHY
LADYBIRD	JOHNSON	
ODE	ALE	ORE
MILKY	SEEM	BTU
BETH	ACK	DUPE
	ARGUES	FOCAL
DUKE	OF	WINDSOR
CONIC	FEDORA	
AMIS	RED	GASH
BIC	MAPS	MECCA
ICY	ALL	CAP
NICKOLAS	ASHFORD	
ELLE	OZARK	ONCE
TEEN	WAXES	PEEL

Solution to Giant

from page 14

9	4	6	3	7	2	1	5	8
3	7	9	6	1	5	4	8	2
7	2	4	1	5	9	8	3	6
2	6	8	5	9	4	3	7	1
6	1	3	9	4	8	7	2	5
4	8	1	7	2	6	5	9	3
1	5	7	4	8	3	2	6	9
8	3	5	2	6	1	9	4	7
5	9	2	8	3	7	6	1	4

Solution to Techdoku

from page 13

2	6	5	3	4	1
5	3	2	6	1	4
6	4	3	1	2	5
1	5	4	2	3	6
3	1	6	4	5	2
4	2	1	5	6	3

Solution to Sudoku

from page 13

9	1	8	2	4	7	3	5	6
4	6	7	9	5	3	1	8	2
2	5	3	8	6	1	4	7	9
5	7	4	1	2	9	8	6	3
1	2	6	5	3	8	7	9	4
8	3	9	6	7	4	5	2	1
7	9	1	3	8	2	6	4	5
6	4	2	7	1	5	9	3	8
3	8	5	4	9	6	2	1	7

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CONCERT REVIEW

An evening of strings with Pinchas Zukerman

Israeli violinist guest-conducts BSO with gusto

Tchaikovsky, Elgar, and Schubert
Boston Symphony Orchestra
Symphony Hall
October 29, 2015

By Ray Wang
STAFF WRITER

The Boston Symphony Orchestra continued its wide-ranging selection of fall programs with a collection of works by Tchaikovsky, Elgar, and Schubert, featuring guest conductor-violinist Pinchas Zukerman last weekend.

A renowned violinist, Pinchas Zukerman performed as a soloist in Tchaikovsky's *Sérénade mélancolique* and *Melodie*, before conducting for the rest of the evening. I'm a huge fan of Zukerman because of his enthusiasm for instructing younger generations of violinists — it spills over from his incredibly emphatic playing and conducting.

He conducted in a distinctively punctuated style as he led the orchestra through Tchaikovsky's *Serenade for Strings*, my favorite work of the program because of its expressivity.

The introduction to *Serenade for Strings*' first movement, *Andante*, is slow and lilting — it plays like an elegy. Then, there comes a section of highly accentuated and vivacious playing from the violins before the movement ends with a slow, tonally layered coda.

The final movement finishes on many of the themes with which the piece began. The



LIZA VOLL

Pinchas Zukerman joined the BSO as conductor and soloist for a program of Tchaikovsky, Elgar, and Schubert.

cellos and five double basses are set against the violins, creating a wonderful asymmetry. The piece concludes beautifully with the coda from the first movement.

Edward Elgar, the composer of the next piece, is best known for his *Enigma Variations* and *Pomp and Circumstance* marches, the latter of which is played at high school graduations in every corner of the country. A relative rarity, *Chanson de la nuit* warmly and softly welcomed the apprecia-


tive audience back from the intermission. The program finished with Schubert's No. 5 in B-Flat, which was rendered nimbly under the able hands of Zukerman.

Schubert was an avid admirer of Mozart. *Symphony No. 5*, composed when Schubert was 19, is well-known to be reflective of his infatuation with

The piece is scored for only one flute, two oboes, two bassoons, and two horns beyond a string section. With this very sparse in-

strumentation, the woodwinds are brought out, and they sound as if they're conversing with each other, like birdsong. But the orchestra lost some of its vivacity in the third movements, even as Zukerman attempted to inject some of his own with foot stomps and powerful strokes.

The BSO's fall season continues with assistant conductor Ken-David Masur leading a November program featuring pianist Louis Lortie.



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There will be a mix of technical, business, hardware and software problems so people with all backgrounds and skill sets are welcome.


When and Where?: Friday Night, November 13 to Sunday Afternoon, Nov 15 on the MIT Campus

Who can participate?: MIT, non-MIT, students, professionals... all are welcome as long as you care about energy and sustainability.


How to participate?: Please take your spot for this event right now by registering as a participant or as a volunteer at energyhack.mit.edu

If you have any questions, email mitenergyhackathon@mit.edu






energyhack.mit.edu





MIT Energy Hackathon



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LEMELSON-MIT



Pairing young musicians with young listeners

By Carolyn Fu

The Boston Philharmonic Youth Orchestra is a vibrant group of 12- to 21-year-olds who devote their Saturday afternoons to practicing together and putting up roughly three performances a year. Many are currently in college as well, including MIT freshman Jueun Lee on the cello. Formed in 2012 as an offshoot of the Boston Philharmonic Orchestra, BPYO aims to provide opportunities for young musicians to grow.

Zander prefaced each piece with a description of the composer's intention and how it compared with other pieces. In adapting to the younger crowd, he obligingly described Debussy's *La Mer* as "full of color, OMG." He also gave essential concertgoer tips – specifically, a "master class in coughing" (the trick is doing it into your sleeve) and advice against clapping unless anyone else is doing so.

The pieces were thoughtfully chosen for the new listener. Glinka's *Overture to Ruslan and Ludmila* was a short, energetic piece played vivaciously by the orchestra. Next, Stravinsky's Violin Concerto in D was a good introduction to far more modern and cacophonous music, which was nevertheless highly rhythmic and inherently danceable. Guest soloist Ayano Ninomiya (an up-and-coming violinist who studied at Harvard and Juilliard) brought the piece to life, coursing

through its technical challenges with incredible deftness and passion. Debussy's *La Mer* followed this piece as a more "fluid" counterpoint to the comparatively structured "lego" of Stravinsky, as Zander explained. Finally Tchaikovsky's Symphony No. 5 provided a triumphant conclusion.

Despite the conscious design of the programme, all put together, it was frankly a rather tiring affair. This was mainly because of the high-octane nature of all of the pieces, which the orchestra played with satisfying pomp and vigor. However, the conducting felt distinctly overzealous, as if Zander was fearful of losing his new audience's attention, and so proceeded to rush through the pieces' slower moments and raise the volume of every climax. As a result, the pieces lost much of their nuanced texture.

Regardless, the evening was a success for the BPYO, especially for those on stage who

were having their inaugural orchestra performances in the incomparable Symphony Hall, and many audience members whom I saw getting lost in the music and head banging to its moving rhythms. These concerts prove to be a great nexus for emerging musicians and listeners, so look forward to their upcoming concerts in February and May next year!

November 2, 2015

Cold War Kids at the House of Blues

By Judy Wang

Given that this was my first time at the Boston House of Blues, I was underwhelmed by the grimy building and the barely filled general admission section. Was this really the iconic Boston venue that had been graced by artists like Miley Cyrus, Chance the Rapper, and this time, the Cold War Kids?

I settled into an optimal standing spot several feet away from center stage, where the first opener, Kinsey and the Dearland Horns, was playing. A trio gifted with impressive facial hair, Kinsey and the Dearland Horns was refreshingly acoustic and surprisingly mellow for a band opening for the high-energy, instrumentally loud, and somewhat angsty Cold War Kids. The lead singer strummed his guitar while working the drum set composed of a single cymbal, flanked by an electric bass player and a trumpet player. The charming combination of instruments enhanced the quirky and bouncy quality to the singer's voice, and his wide-rimmed, '70s-style glasses only added to the eccentric yet lovable image.

set, the audience greeted the last note with applause and declarations of adoration, ranging from "You've got a new a fan" to "I want your beard!" With the remnants of the light, bouncy music washing over the audience, everyone was happily chatting, expecting at least a 30-minute wait for the next opening act. The House of Blues did not seem as dark and gross as it did before; the disco ball glittering on the ceiling and various religious symbols above the stage became charming additions to a venue with much more character than I had realized.

In a remarkably short amount of time, the following opening act, The Maudlin Strangers, began performing. This time, the defining physical characteristic was the hair: head half shaved, sharp and sweeping bleach blond hair, and dark spikes pointing in every direction. The energy quickly grew as the drummer slammed on the drum set composed of much more than just a single cymbal. Small head bobs morphed to full body bobbing as the audience followed the moves of the over-enthusiastic bass player. The mood grew as the music became more punctuated, and it reached a high as the singer unified the audience with "ooh-ing"

in "Penny." After one more song and bittersweet parting words for their last performance on the tour, it was time for the main act.

And let me tell you, Cold War Kids did not disappoint.

This concert was perfect for both longtime and recent fans of the band, especially due to the well-picked setlist and the band's seemingly never ending energy. After a short 20 minutes of waiting, Nathan Willett, the lead singer, jumped on and immediately went into a throwback track, "Don't Let Your Love Grow Away From Me" from their first EP, *Mulberry Street*, which was released in 2005. When the first chords of the ever so popular "Hang Me Up to Dry" rang through the venue, the already riled-up audience exploded. The setlist followed this back and forth pattern of songs back in the "good ol' days" and the "hits," throughout the entire show. As a result, the crowd was always wild, ready for the next familiar lyrics to hit them.

Not only that, their stage presence was incredibly invigorating. I do not know how, but Willet managed to keep the energy levels of the night notched at their highest

capacity. His hands coordinated with the words, clutching at his heart when singing the sorrowful chorus of “First” and pointing into the air when “shooting for fame” in the exhilarating “Miracle Mile.” Accompanying his hand motions were his intensely expressive facial expressions, making the audience feel for the husband struggling with alcohol in “We Used to Vacation” or the purposeful loneliness in “Audience.”

This was just the lead singer. With different songs came different staging for the members. Sometimes the guitarist or saxophonist rocked out at front and center, or the lights would focus on the keyboardist, head and hands moving wildly. After 16 songs and an additional two songs in the encore, I was on a musical high for the rest of the night. While this was unfortunately the last performance of their tour, I am sure there will be more to come from this magical combination of people and music. At least for now, I won't be able to hide the smile on my face when I hear a Cold War Kids track.

Oh and, House of Blues, thank you for providing the right amount of intimacy and charming griminess. I'll be back again.

Do you have a story to tell?

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Romance at MIT

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New House, from Page 1

inconvenience to the residents of House 6, and I know that all New House administrators, executive, officers and residents will gladly extend a helping hand in any way that we can," Garcia's email said.

Half of New House closed in July after a different pipe burst in House 2, causing extensive flooding and displacing more than 100 students. Many are currently living in the Hyatt Regency hotel just off campus as part of an arrangement with MIT.

Since the burst this week, residents have expressed con-

cerns about their safety and about the stability of the building, according to the Garcia's email. New House representatives compiled a list of questions to ask administrators, including "Why are the pipes in New House breaking? Will this keep happening? Are we (our belongings and ourselves) safe?" and "What are the options for repairing the pipe system(s) in the building? Is this a permanent fix?"

"New House Executives and [the] MIT Administration share the common goal of ensuring the safety of our New House residents," Garcia wrote.

—Katherine Nazemi

Media Lab, from Page 1

trophy. The Media Lab recently developed the first 3D printer to print glass.

A tweet from the Media Lab revealed that upon receiving the award, Minsky said: "What a beautiful thing! What does it do?"

Kofi Annan emphasized the importance of responsibility, saying that "technology does not free us from leadership."

Smith's speech discussed contributions women have made to scientific fields, and asked the audience how many of them had heard of the Seneca Falls Decla-

ration. Fewer than a third of the attendees raised their hands.

"I would have never predicted the impact of the Media lab," Negroponte said. He told the audience to "do the outrageous without justification." He also identified a brain drain "to start-ups from big problems" and encouraged more people to go into civil service to solve hard problems.

The Media Lab is home to 24 research groups which explore everything from democratizing app development to finding new modes of cooperation for human society.

—Anshuman Pandey

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Diwali Night

Sunday Nov 8

Dinner Lobdell 6.00 to 7.30pm

Activities Kresge 6.00 to 8.00pm

Cultural Show Kresge 8.00 to 10.00pm

Tickets sangam.mit.edu

WEATHER

Record highs possible Friday

By Vince Agard
STAFF METEOROLOGIST

The United States' East Coast has experienced a period of unusual warmth this week. High temperatures in Boston have been in the 50s and 60s (°F) nearly every day for the past week, and we haven't seen a high temperature below 50°F (10°C) since all the way back on Oct. 25. Normally, temperatures like this are more often observed in the first few days of autumn than in the first few days of November.

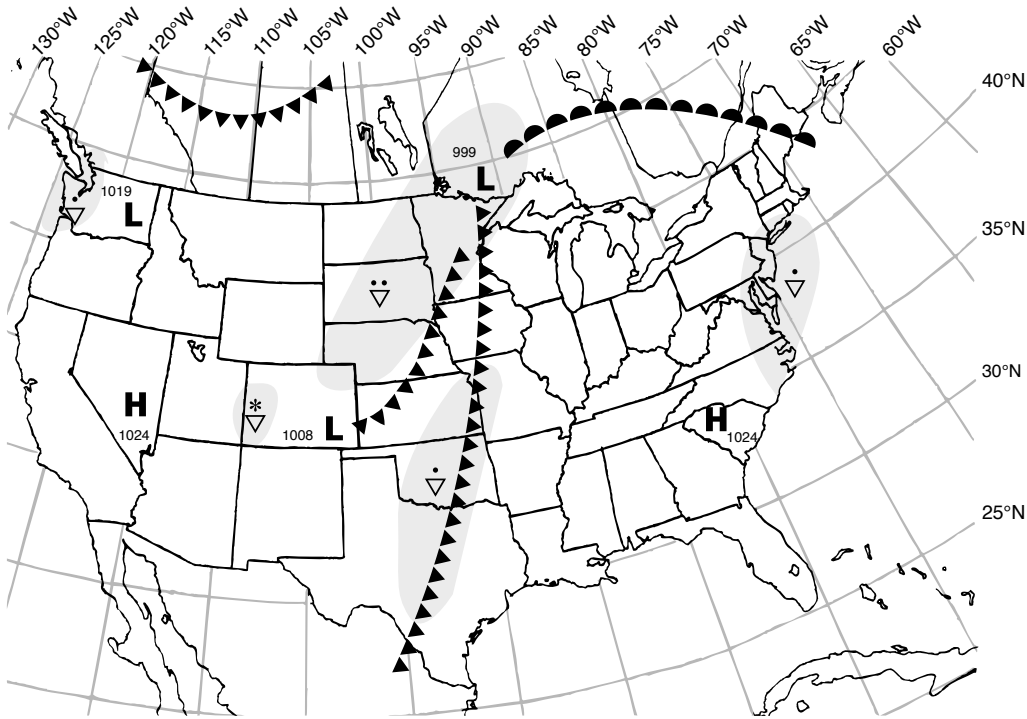
The anomalously warm weather will continue for the next two days in advance of a deep low pressure system that is forecast to pass to our north-

east. Between now and tomorrow night, New England will be situated in the warm sector of this cyclone, with warm air being swept across the region by southwesterly winds. In Boston, the record high temperature for Nov. 6 is 73°F — a mark that may be equaled or even surpassed tomorrow.

A strong cold front will pass through the area on Friday night, bringing with it the chance of showers, and knocking temperatures down by roughly 20°F (10 K) by Sunday. While temperatures will be more seasonable, an incoming high pressure system should provide lots of sunshine for the beginning of next week.

Extended Forecast

Today: Mostly sunny, high 72°F (22°C). Winds SW at 5-10 mph.
Tonight: A slight chance of showers, low 59°F (15°C). Winds SW at 5-10 mph.
Tomorrow: Partly cloudy with a chance of evening showers, high 73°F (23°C). Winds SW at 10-15 mph.
Saturday: Mostly sunny, highs in the lower 60s °F (16°C).
Sunday: Sunny, highs in the lower 50s °F (11°C).



Situation for Noon Eastern Time, Thursday, November 11, 2015

Weather Systems	Weather Fronts	Precipitation Symbols		Other Symbols
H High Pressure	- - - Trough	Snow *	Rain •	Fog
L Low Pressure	Warm Front	Light *	Moderate **	Thunderstorm
§ Hurricane	Cold Front	Heavy *		Haze
	Stationary Front			

Compiled by MIT Meteorology Staff and The Tech

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Lenny, Course 2

Michelle, Course 3

Jiahao, Course 6

Patricia, Course 8

Vivian, Course 9

Amy, Course 10

Vince, Course 12

Fiona, Course 14

Samir, Course 16

Katherine, Course 17

Claire, Course 18

Jack, Course 19

Tara, Course 20

Mirny, Course 21

Karleigh, CMS

Alex, Course 22

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Sudoku

Solution, page 8

9					7		5	
		7	9			1	8	
		3		6		4	7	
			1			8	6	
1								4
	3	9			4			
	9	1		8		6		
	4	2			5	9		
	8		4					7

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 8

60x			72x		4x
90x		2		1	
	120x			10+	
		4			4-
12x		21+			
	2			18x	

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Simpsons Spinoffs

by some S.N.

Solution, page 8

ACROSS

- 1 Weaponry
- 5 National symbols
- 10 Big cheese
- 14 Kid-lit bear
- 15 Thorough check
- 16 Covered in cinders
- 17 White House spouse who wore Adele Simpson dresses
- 20 Coleridge creation
- 21 Tankard filler
- 22 Mineral resource
- 23 Sound of distress
- 24 Opalescent
- 26 Have the look of
- 27 Meas. of heat
- 28 Playwright Henley
- 29 Sound of distress
- 31 Patsy
- 32 Makes a case
- 35 At the center
- 36 Wallis Simpson's husband
- 39 Volcano-like
- 40 Indy Jones topper
- 41 Camarades
- 42 Symbol of debt

- 43 Radial mishap
- 47 Pen name
- 48 Cartography
- 51 Major draw
- 52 Subject to skidding
- 53 The entirety
- 54 Spending ceiling
- 56 Neutral shade
- 57 Valerie Simpson singing partner
- 61 Monthly with many models
- 62 Arkansas' ___ National Forest
- 63 Before
- 64 Typical Archie Comics character
- 65 Spa treatments
- 66 Spa treatment

DOWN

- 1 Unshakable poise
- 2 Band aide
- 3 Best-selling 1920s car
- 4 Short by
- 5 Need repair
- 6 Draw

- 7 Word on dipsticks
- 8 First action figure
- 9 Inventory
- 10 Rule out
- 11 Milanese meal
- 12 Score 72 at Augusta
- 13 Shale oil, for instance
- 18 Water under some bridges
- 19 Equivocate
- 25 Casual clothing
- 26 Criticizes harshly
- 29 Before
- 30 Sleeve section
- 31 Potion portion
- 33 DVR button
- 34 Preceder of long or line
- 35 DC memorial honoree
- 36 Where you live
- 37 Circus vehicle
- 38 Bobblehead's action
- 39 Kitchen adjunct
- 44 Broadway opening
- 45 Not often found
- 46 Oratorio master
- 48 Chiang adversary
- 49 Say OK to
- 50 Public square

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
17				18						19				
20				21			22				23			
24			25			26					27			
28				29	30					31				
			32	33			34		35					
	36	37						38						
39					40									
41						42				43	44	45	46	
47				48	49	50			51					
52			53				54	55			56			
57		58				59				60				
61					62					63				
64					65					66				

- 51 Speed stat.

54 Solicitude

55 Calls (for)
- 58 Understanding

59 Coltrane's instrument

60 Fashion plate

Blow-By-Blow

by Cathy Allis

Solution, page 7

ACROSS

- 1 Become rough
- 5 It's south of Samoa
- 10 Indistinctness
- 14 Verdi masterwork
- 15 Cream-colored
- 16 Welsh form of John
- 17 START OF A QUESTION FROM B.C.
- 20 Supreme Court name
- 21 Telejournalist Dobbs
- 22 Place for alpacas
- 23 Source for green eggs
- 25 Media statistician Silver
- 27 British broth ingredient
- 30 Title Columbus held
- 33 More than half of us all
- 34 Curb, with "in"
- 35 "Agnus ___"
- 37 PART 2 OF QUESTION
- 38 PART 3 OF QUESTION
- 39 END OF QUESTION
- 40 Blunder
- 41 Comic routines
- 43 Swank biopic
- 45 Board with a thumbhole
- 47 Low A

- 48 Stock villain in Gothic fiction
- 49 It may be marching
- 50 Lectured
- 53 START OF ANSWER
- 55 Conspiracy
- 59 END OF ANSWER
- 62 Vigor
- 63 Web-footed mammal
- 64 Horoscope beast
- 65 Geneticist portrayer in Jurassic World
- 66 App clientele
- 67 Sherwood Forest trees

DOWN

- 1 Crow sounds
- 2 Jaunty greeting
- 3 Arabian gulf
- 4 Brain lobe
- 5 Idiosyncrasy
- 6 Egg outlines
- 7 Proscribed practice
- 8 Rolling baseball
- 9 Big name in Objectivism
- 10 He financed a Clara Bow

- documentary
- 11 Voracious
- 12 Name on the cover of Wild Horse Mesa
- 13 Wraps up
- 18 Irish statesman De Valera
- 19 Dinette descriptor
- 24 Ones: Fr.
- 26 End of Horner's boast
- 27 Fashioned
- 28 Encroach on
- 29 Possible bridal wear
- 30 Spring up
- 31 Allan-___
- 32 Kosher
- 36 Watson exclamation
- 38 Pulls in
- 39 Opposite of "rigid"
- 41 Engender
- 42 "What was ___ think?"
- 43 Coin collectors' org.
- 44 Hash up
- 46 Fondness
- 49 Recycling facility's machine
- 50 Shoot out
- 51 Columbus inspiration

1	2	3	4		5	6	7	8	9		10	11	12	13
14					15						16			
17				18						19				
20					21				22					
			23		24		25	26						
27	28	29				30					31	32		
33						34					35		36	
37					38					39				
40				41	42			43	44					
	45		46					47						
			48				49							
50	51	52			53	54			55		56	57	58	
59					60			61						
62					63					64				
65					66					67				

- 52 The Good Earth character

54 ___ Modern (London art gallery)

56 Cost of leaving
- 57 Depiction on an Emmy

58 Smartphone part

60 Slip in a pot

61 Watson et al.

T-MINUS 2 MINUTES

TANK AND BOOSTER ARE GO FOR LAUNCH.

SAFETY CONSOLE?

CHECK. SAFETY-

WAIT.

WHAT IS IT?

ON THE LIVE FEED - A COOL BIRD JUST FLEW PAST THE TOWER!

WAIT.

WHOA, WHAT KIND?

LIKE A HAWK, MAYBE!

COULD IT BE A VULTURE?

I DOUBT IT. THE WINGS WERE FLAT, NOT IN A "V."

IT COULD BE AN EAGLE!

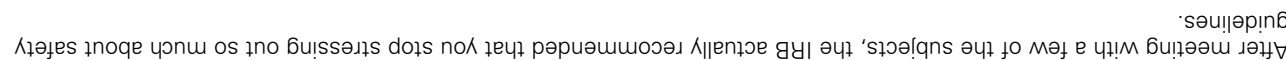
OOH!

THIS IS LAUNCH CONTROL. WE HAVE A POSSIBLE SIGHTING OF A COOL BIRD. HALT THE COUNTDOWN.

SOMEONE GET SOME BINOCULARS UP HERE!

I WANT TO SEE!

[1594] Human Subjects



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.

19+			42x				23+	
32+					160x			
	8x		29+				18x	
16+				2-			7x	
2-	21x			8x	28+			15x
	8		7				54x	
8x	5		23+					9
	15x		16x		27+			7
5	18x			3			5+	

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**NO EXPERIENCE
NECESSARY!**

Ultimate caps off busy October with 1st place at tourney

Women's team will now focus on preparing rookies for spring season

By Margaret H. Carpenter
SPORTS WRITER

October was a busy month for the MIT women's ultimate frisbee team as it fielded teams in three different competitions. With an unprecedented addition of over 30 members to the roster this fall, MIT had the luxury of fielding multiple teams in the same tournament, giving its rookies valuable match experience.

Travelling to Yale on Oct. 17 and 18, MIT handed out debuts to a number of rookies. Although the team didn't end up scoring very well in that tournament, the captains and players agreed it was a success. First-timers Audrey Li '19, Michelle Chen '19, Amy Liu '19, and Bethany Cates '19 all stepped into handler positions for the first time. Team captain Claire Duvallet G remarked after the tournament, "If this is what our rookies play like after less than two months of practice, I can't wait to see where we'll be at the end of the year."

The club also hosted its first home tournament of the season this October, fielding two teams and competing in a total of eight games. Both MIT teams included a mix of veterans and rookies. Opponents includ-

ed Brandeis, Middlebury, Northeastern, Boston College, and Brown. The two MIT teams came away with a combined seven wins and one loss, falling only to Middlebury.

"It was a great opportunity for our newer members to learn from our more experienced veterans," senior captain Alina Li '16 said.

On the weekend of Oct. 24 and 25, a team of more seasoned players travelled to Maine for a two-day tournament at which 13 schools from the Northeast engaged in enthusiastic competition. It was the toughest challenge yet this year for the MIT ultimate club, but they finished in first place, winning some prize money that will benefit the future of the women's ultimate program at MIT.

"Ultimate can unite women from various communities, and it was awesome seeing their hard work paying off this fall," Li said.

The fall tournament season is drawing to a close, and the ultimate team is already looking forward to an exciting spring season. The team is planning on putting in a lot of hard work this winter, and with so many new players interested in the sport, the club has high hopes for the future.

UPCOMING HOME EVENTS

Friday, November 6

Squash vs. Boston College

5 p.m., Zesiger Sports and Fitness Center

Saturday, November 7

Women's Swimming and Diving vs. Springfield College

1 p.m., Zesiger Sports and Fitness Center

Men's Swimming and Diving vs. Springfield College

1 p.m., Zesiger Sports and Fitness Center

Squash vs. Lehigh University

12 p.m., Zesiger Sports and Fitness Center

Men's Soccer — NEWMAC semifinals

10:30 a.m., Steinbrenner Stadium

Women's Soccer — NEWMAC semifinals

10:30 a.m., Steinbrenner Stadium

Women's Volleyball — NEWMAC semifinals

1 p.m., Rockwell Cage

Football vs. Nichols College

6 p.m., Steinbrenner Stadium



LENNY MARTINEZ—THE TECH
Logan S. McLaughlin '19 attempts to steal the ball from a WPI player during Saturday's game. The Engineers beat WPI 2-1 in overtime.

2 from women's soccer receive weekly honors

Players claim awards ahead of playoffs

By Max Berkowitz
DAPER STAFF

MIT women's soccer players Alexandra R. Hrabchak '19 and Lauren S. Ullmann '17 were named as the New England Women's and Men's Athletic Conference (NEWMAC) Offensive and Defensive Players of the Week, respectively, as announced by the league office early afternoon on Tuesday, Nov. 3.

In a 2-0 week for the Engineers, Hrabchak scored four of MIT's seven goals equaling eight points, which included her first career hat trick in the 4-0 season finale victory over Coast Guard on Saturday afternoon. In both contests this week, Hrabchak also planted the game winners. The freshman midfielder has notched 12 goals and one assist for 25 points and four game winning goals, thus far, over her rookie campaign.

In between the pipes, Ullmann improved her record to 11-6-2 with a pair of wins this week for the Cardinal and Gray. Ullmann made a total of nine saves in two games for the Engineers, including seven against Emerson which clinched the NEWMAC Regular Season Championship for MIT. She also registered her fourth shutout of the season in a 3-0 win against the Lions.

For Hrabchak and Ullmann this is their second career time being selected for NEWMAC Player of the Week accolades.

MIT (11-6-2, 8-2-0 NEWMAC) awaits the winner of the No.4/5 matchup as the No. 1 seed in the NEWMAC women's soccer tournament. The Engineers have a first round bye and home field advantage throughout the playoffs as the semifinals are slated for Saturday, Nov. 7 at 10:30 a.m. and 1:30 p.m. on Roberts Field.



LENNY MARTINEZ—THE TECH
Nolan J. Kruse '17 blocks an incoming shot during Sunday's game against Iona College. MIT won the match 11-5.



LENNY MARTINEZ—THE TECH
Molly C. McNamara '16 dribbles the ball up the field during last Saturday's game against Babson College in their last NEWMAC game of the regular season. The Engineers lost to Babson with a score of 1-3.



ALEXANDER C. BOST—THE TECH
Greta M. Farrell '18 and Elizabeth Zhang '16 roll tack their Flying Junior dinghy during the Victorian Coffee Urn Trophy hosted by Harvard University on Saturday. MIT hosted the Erwin Schell Trophy in which the Engineers finished sixth, qualifying the team for the Atlantic Coast Championships to be hosted by Old Dominion University on Nov. 14-15.